

**CLAIMS**

1) Pressing iron having a sole plate (1) and a heating body  
5 (2) provided with a heating element (201), the heating  
body (2) comprising a first steam chamber (210) used for  
ordinary ironing and a second steam chamber (220 ; 230)  
used to obtain a surplus of steam when the iron is in the  
horizontal position or a jet of steam when the iron is in  
10 the vertical position, said second steam chamber (220 ;  
230) being fed with liquid by means of a manual pump  
actuated by the user and being associated with a steam  
circuit (223) ending in a set of steam openings in the  
sole plate, characterized in that, when the iron is held  
15 vertically, the second steam chamber (220 ; 230)  
functions as a steam generator of the boiler type and in  
that, in this vertical position of the iron, the second  
steam chamber (220 ; 230) presents a form adapted to  
retain the liquid injected by the pump before its  
20 conversion into steam, the form of the second steam  
chamber (220 ; 230) being such that the heat exchange  
surface between the injected liquid and the walls (3, 221,  
222; 3, 231) of said second steam chamber (220 ; 230) is  
smaller when the iron is in the vertical position than  
25 when the iron is in the horizontal position.

2) Pressing iron according to claim 1, characterized in that  
the second steam chamber (230) is delimited by at least  
one wall (231) whose form and thickness are such that, in  
30 operation, the thermal energy stored in the wall (231) is  
greater toward the front of the sole plate (1) than toward  
the rear of the sole plate (1).

3) Pressing iron according to claim 2, characterized in that the thickness of the lower wall (231) of the second steam chamber (230) is greater toward the front of sole plate than toward the rear of the sole plate.

4) Pressing iron according to any one of claims 1 to 3, characterized in that the second steam chamber (230) has a side wall (232) near to the heating element (201) that is at least locally isolated from the heating body (2) by a layer of air.

5) Pressing iron according to any one of claims 1 to 4, characterized in that the second steam chamber (220 ; 230) is delimited by side walls (222; 232) connected to lower (221; 231) and upper (3) walls disposed parallel to the sole plate (1), and in that the side wall (222; 232) nearest to the front of the iron has an opening (224) connecting the second steam chamber (220 ; 230) to the steam circuit (223).

6) Pressing iron according to claim 5, characterized in that said opening (224) has a passage cross section calibrated to retard the steam flow leaving the second steam chamber (220).

7) Pressing iron according to claim 6, characterized in that said opening (224) has an added element (225) of plastic material or rubber that determines said passage cross section.

8) Pressing iron according to claim 7, characterized in that said added element (225) has a cylindrical part (225a) extending toward the interior of the steam chamber (220).

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9) Pressing iron according to any one of claims 1 to 8, characterized in that the temperature of the walls of the second steam chamber (220; 230) is lower than 150°C.

10 10) Pressing iron according to any one of claims 1 to 9, characterized in that the volume of the second steam chamber 220; 230) corresponds to several times the volume of liquid injected by the pump with each actuation by the user.

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11) Pressing iron according to any one of claims 1 to 10, characterized in that the second steam chamber (220; 230) has a lower wall, disposed parallel to the sole plate (1), having projecting elements (221a; 231c) increasing the  
20 heat exchange surface with the liquid injected into said chamber when the iron rests horizontally on its sole plate.

12) Pressing iron according to any one of claims 1 to 11,  
25 characterized in that the volume of the second steam chamber (220; 230) is about 5 ml and the volume of liquid injected by the pump at each actuation is about 1 ml.